BR 261/24-9-15 SBR 17/28-5-15

A.A No: 022/14-15 Dt: 29-10-14
T.S No: 072/14-15 Dt: 29-10-14

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Job Code: 014-15-000008 341316
Pcode - 1771 est cost: 10.00 lakhs

Bill No 1st & Final
Serial No. .....
Name of Work Improvements to roads and drain at cross from roads of Munikanduppa layout in I/c Main Shivarams house in ward NO-14 -
Name of Contractor of nature of Agency ..... Sri. Suvarnalata B.T
Date of commencement of work EE/DD/WO/349/14-15 Date: 31/3/2015

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2m and an average lift upto 0.5m, Excavated surface levelled and sides neatly dressed the disposed earth to be levelled, complete as per specification Quantity premeasured recorded vide PNO341395 of this M.B		@ 75.00/cum			53.12 cum	3984/-
	2. Construction of embankment with approved material gravel/murrum with all lifts and leads, spreading, grading to required slope and compacting to meet requirement table 300-2. Complete as per specification. Quantity premeasured recorded vide PNO341395/2 of this M.B		@ 220.00/cum			224.10 cum	49302/-

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	3. Providing and laying in position PCC of mix M7.5 with OPC cmnt @ 150Kgs with 40mm and down size graded granite metal course aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete not exceeding 15cms thick well compacted including cost of all materials, curing complete. Quantity premeasmt recorded vide PNo 341396 of His M.B		@ 4847 m/cm			9.96 cum	48276/-
	4. providing and laying in position PCC of mix M1:2:4 with cmnt @ 240Kgs. with 20mm and down size graded granite metal course aggregates @ 0.878cum and fine aggregates @ 0.459cum machine mixed concrete laid in layers not exceeding 15cms thick well compacted in foundation and plinth including cost of all materials, complete Quantity premeasmt recorded						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 341317

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	vide PNo 341397 of this M.B					5.81 Cum	30374/-
			@ 5228.00/cum				
	5. Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/Sqm with CM 1:4 masonry with solid concrete blocks of size 40x20x20 cms conforming to I.S 2185/1965 in superstructure including cost of all materials labour charges curing complete as per specifications.						
	Quantity premeasured recorded vide PNo 341397/2 of this M.B					398.40 Sqm	39581/-
			@ 993.50/Sqm				
	6. Supplying and fixing precast reinforced concrete slab locus thick						

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
1	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
	including cost of reinforcement as per design and drawing material cast, trosportation, hire charges of machinery, machine cutting the vertical face to get plain even surface etc, complete with all lead and lift conveyance charges labour charges, complete as per specifications.						
		2	30.00	0.75		45.00	
		2	12.00	0.75		18.00	
		2	30.00	0.75		45.00	
		2	8.30	0.75		12.45	
		1	30.00	0.90		27.00	
		1	5.00	0.90		4.50	
						151.95 Sqm	
			Limited to 149.40 Sqm @ 1600.00/Sqm				239040/-
7.	Disposal of debries to the final place of disposal with all lead &						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 341318

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Lift and as direction by the engineer in charge.						
	Qty vide item No 1		@ 78.00/cum			53.12 cum	4143/-
	3. Providing laying spreading and compating graded stone aggregates to wet mix macadam spec including premixing the material with water at OMC in mechanical mix plant carriage of mixed matter by tipper to site on well prepared surface and compacting with vibratory roller to achive the desired density complete as per specifications.						
	Quantity pramesant retarded vide PNo of this MB		@ 1438 rs/cum			124.50 cum	179031/-

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
9.	Providing and applying tack coat using 80/100 grade bitumen on the granular base such as WBM surface hot bitumen primed at 4Kg/10sqm heating bitumen in boiler fitted with spray set including cost of all materials, labour, Hire of machineries complete as per specifications. Quantity premeasurment recorded vide PNo 98/2 of this MB		@ 30.00/sqm			4150.00 sqm	12450/-
10.	Providing and laying Semi dense bituminous concrete 25-30mm compacted thickness with 5% bitumen with 100-120 TPH batch type HMP producing an average output of 75 tonnes/hour using crushed aggregates of specified grading, premixed with bitumen binder at 5% of mix and filler, transporting the hot mix to work site rolling with smooth wheeled vibratory and rollers to achive the desired compaction as per MORT spec clause No 508 complete						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 341319

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	in all respects with 80/100 grade bitumen with all leads and lifts etc., complete as per spec.						
		1	30.00	4.30	0.03	0.90	
		1	12.00	4.30	0.03	0.36	
		1	30.00	4.60	0.03	0.90	
		1	8.30	4.60	0.03	0.25	
		1	15.00	4.00	0.03	0.45	
						2.86 cum	
			Limited to 2.49 cum				24529/-
			@ 9851.00/cum				
	11. Carriage of mixed materials above 15 Km beyond 10 Km to 15 Km lead						

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E.E. (D.D.)

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	By Tuesday Chukka d Ford Court.	Quantity vide item No (19)				2.49 cm	1852/-
				@ 73.00/-			9,87,121/-
						G.C. charges 1%	9871=00
							996993=00
	Certificate 1) Certified that the work has been executed by me and all disputes pertaining to the work spot. 2) Certified that the contractor has removed all debries from work spot. 3) Therefore no departmental issues.						987/29=00

M. A. R. 57 (Rule 116)

Measurement Book

No. B 341320

Serial No. .....

Name of Work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Audited and admitted for Rs. 987122=00

Passed by Cheque for Rs. 761417=00

910705=00

Date	Full description, etc., of work by adjuste...	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Accounts Superintendent / Exe. Engineer						
	1st Main Road Mani Kondapura layout						
	CROSS Road		38.3M				
	35m						
	Shivarum house.						
	CROSS Road		42M				
	MAIN ROAD						
	110						

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು

ಪಿ.ಡಬ್ಲ್ಯೂ.ಡಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ

M. A. R. 57 (Rule 116)
Measurement Book

No. B 341395

Name of work for providing drains to roads From drain at cross to roads of Munikandeppa layout in front of Main Shivaram house in ward No 14. Gagalapete.

Contractor or nature of Agency ..... Sri. Suresendra B.T.

Commencement of work E.E/BBD/WS/3.47/14-15 Dt.: 31/3/2015

Full description, etc, of work	Pre-Measurements Dimensions				Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	3	4	5	6	7	8
Earthwork Excavation by manual means in ordinary soil including throw upto 2m and on average lift upto 0.5m ground surface levelled and sides neatly dressed, the dispersed earth levelled neatly after breaking of clods complete as per spec.						
Shivaram house Road	2	30.00	0.60	0.80	~~14.40~~	28.80
	2	12.00	0.60	0.80	~~5.76~~	11.52
Cross Road	2	30.00	0.60	0.80	~~14.40~~	28.80
	2	8.30	0.60	0.80	~~3.98~~	7.96
	~~1~~ 2	30.00	0.80	0.90	19.20	
					~~57.74~~ cu.	46.28 cum
		limited to 53.12/cum				

C/F 4/4/15

4/4

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2. Construction of embankment with approved material gravel/ murrum with all lead and lifts, transporting to site, spreading grading to required shape and compacting to meet requirement Table 300-2 complete as per spec.						
	Shivaram House Road	1	30.10	4.30	0.50	64.50	
		1	12.10	4.30	0.50	25.80	
	Cross Road	1	30.10	4.60	0.45	62.10	
		1	8.30	4.60	0.45	17.18	
		1	24.50	5.00	0.45	55.13	
						224.71/cum	
			limited to 224.10/cum				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341396

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
3.	Providing and laying in position PCC of mix M 7.5 with opc cmt @ 180 Kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cm and fine aggregates @ 0.57cm machine mixed, concrete laid in layers not exceeding 15cms thick well compacted in foundation and plinth, including cost of all materials, labours, curing complete.						
	Shivamma house Road	1 x 2	30.00	0.60	0.15	~~2.70~~	5.40
		1 x 2	12.00	0.60	0.15	~~1.08~~	2.16
	Cross Road	1 x 2	30.00	0.60	0.15	~~2.70~~	5.40
		1 x 2	5.30	0.60	0.15	~~0.75~~	1.50
		1 x 1	30.00	0.80	0.15	3.60	
			Limited to 9.96/cm			~~14.80 cm~~	18.06 cm

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
4.	Providing and laying in position PCC of mix M1:2:4 with cement @ 240 Kgs with 20mm and down size graded granite metal crush aggregate @ 0.878 cum and fine aggregate @ 0.459 cum machine mixed concrete laid in layers, not exceeding 15cms thick well compacted including cost of all materials, labour, curing complete as per specification.						
	Shivarama Loge	2	30.00	0.40	0.075	1.50	
	Road	2	12.00	0.40	0.075	0.72	
	Cross Road	2	30.00	0.40	0.075	1.80	
		2	8.30	0.40	0.075	0.50	
		2	30.00	0.20	c/o	1.20	
		2	12.00	0.20	0.50	0.48	
		2	30.00	0.20	0.50	1.20	
		2	8.30	0.20	0.10	0.33	
		1	30.00	0.40	0.075	0.90	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341397

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Off Pr Q R2/M)15	1	30.60	0.50	0.10	0.60 9.53	
			limited to 5.81/am				
			29/4				

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	5. Providing and Constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with CM 1:4 masonry with solid concrete blocks of size 40x20x20 cms conforming to I.S 2185/1965 in superstructure including cost of materials, labour charges, curing complete.						
	Shivarama house Road	2x2	30.10	0.80		96.00	
		2x2	12.00	0.80		38.40	
	Cross Road	2x2	30.10	0.80		96.00	
		2x2	8.30	0.80		26.56	
		2	30.00	0.90		54.00	
		2	5.00	0.90		9.00	
		2	30.00	0.90		54.00	
		2	14.00	0.90		25.20	
						399.16 sqm	
			Limited to 398.40/sqm				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

341398

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
9.	Providing laying spreading and compacting graded stone aggregates to wet mix macadam spec including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniforms layers with paver in sub-base on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per spec, complete as per direction.						
	C/F Shivaram house Road	1 –	30.00	4.30	0.30	38.70	
	3rd/4/18 Cross Road	1 –	12.00	4.30	0.30	15.48	
		1 –	30.00	4.60	0.30	41.40	
		1 –	8.30	4.60	0.30	11.45	
		1 –	15.00	4.00	0.30	18.00	
			Limited to 124.50 cum			125.03 cum	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
9.	Providing and applying tack coat using 80/100 grade bitumen for granular base such as WBM surface hot bitumen primed at 4Kg/10sqm using bitumen in boiler fitted with spray set including cost of all materials, labour, complete as per spec.						
	Shivaram house Road	1	30.00	4.30		129.00	
		1	12.00	4.30		51.60	
	Cross Road	1	30.00	4.60		138.00	
		1	8.30	4.60		38.18	
		1	15.00	4.00		60.00	
						416.78 Sqm	
			Limited to 415.00/sqm				
						5/5/2015	